

# RANGER PROGRAMS



Summer 2008



NPS

## Stars Over Yellowstone

*Enjoy Yellowstone's unpolluted sky. Find constellations, hear star stories, and view the sun and other celestial objects through telescopes. Weather permitting.*

**Safe Solar Observing: Old Faithful Temporary Visitor Center area**

**Saturday: June 7, July 5, & Aug. 2, 2–5 PM**

Safely view the sun through telescopes.

**Night Sky Observing: Between the Madison Campground & Amphitheater**

**Friday & Saturday: June 6–7 & July 4–5, 10:30 PM; Aug. 1–2, 10 PM**

Find the Milky Way, Jupiter, craters on the Moon, the center of the Galaxy, star clusters, and nebula. Telescopes available. Dress warmly; bring a flashlight.

**Astronomy Evening Programs: Madison Campground Amphitheater**

**Friday, June 6, 9:30 PM**

*Astronauts and Aliens* by Tyson Littenberg, Space Public Outreach Team (SPOT), Montana State University.

NASA studies life in space by exploring extreme environments here on Earth, and on the planets and moons of our solar system. Take a journey from the vents of Yellowstone to the nearby stars of our galaxy in the search for extraterrestrial life.

**Saturday, June 7, 9:30 PM**

*The Sun–Earth Connections* by Joey Key, Space Public Outreach Team (SPOT), Montana State University. The Sun and the Earth are intimately linked. Discover what scientists have learned about how changes on the sun trigger events on Earth, and how this impacts human exploration of space.

**Friday, July 4, 9:30 PM**

*Cosmic Update* by Jim Manning, executive director, Astronomical Society of the Pacific. Learn the latest about what's up in the sky and what's new in the study of the universe.

**Saturday, July 5, 9:30 PM**

*Galileo's Universe* by Jim Manning. Learn how Galileo's modest telescope led to today's giant instruments and incredible discoveries about the cosmos.

**Friday, August 1, 9 PM**

*Dark Matter in the Galaxy and Cosmos* by Dr. Shane Larson, assistant professor of physics, Utah State University. Examine why we think dark matter and dark energy are out there and explore ideas for discovering just what dark matter and dark energy might be.

**Saturday, August 2, 9 PM**

*Discover the Secret Lives of the Stars* by Dr. Shane Larson. Visit some of the 8,000 stars visible in the night sky over Yellowstone and explore the lives they lead.

*Stars Over Yellowstone* is presented by The Museum of the Rockies and its partners, including the Southwest Montana Astronomical Society and the Abaetern Academy. The Museum of the Rockies is in Bozeman, Montana, at 600 Kagy Blvd.; 406-994-2251.



Photo courtesy of David Bimezies

**Take a safe, close look at the sun.**

## Junior Ranger Program

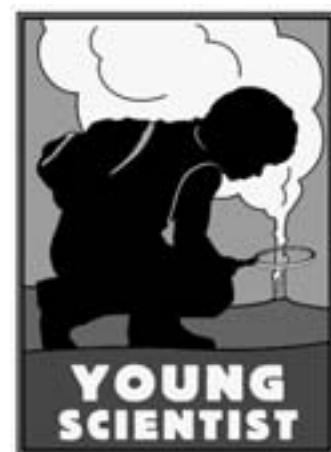
Children between the ages of 5 and 12—you are invited to become Junior Rangers! Stop by any park visitor center or the Junior Ranger Station located at Madison Junction for details on how you can learn more about Yellowstone. Purchase the official Junior Ranger newspaper for \$3 and complete the program requirements. Ranger-led programs especially for Junior Rangers and their families are offered at most areas. Junior Rangers will be awarded arrowhead-shaped patches—a wolf track patch if you are between the ages of 5 and 7, a bear track if you are between 8 and 12.



## Young Scientist Program at Old Faithful & Canyon

Students ages 5 and up—you can become a Young Scientist! Purchase your self-guiding booklet for \$5 at the Canyon Visitor Education Center or Old Faithful Visitor Center. You'll investigate the mysteries of Yellowstone by completing activities in the visitor center and field. The 5–9 year old program is offered only at Old Faithful. If you are investigating in the Old Faithful area, be sure to check out a Young Scientist Toolkit, which has a thermometer, stopwatch, and other gear. Once your investigation is complete, you will be awarded a Young Scientist patch or key chain.

*Development of this program was funded by the National Science Foundation through a generous grant to the Yellowstone Park Foundation.*



## Sign Language Interpreters



If you need a sign language interpreter for National Park Service interpretive programs, please make arrangements three weeks in advance by calling 307-344-2251.

*Looking for a ranger-led hike to some of Yellowstone's hidden wonders? Turn to the back page for information on Ranger Adventure Hikes.*